**InClassAssignment1(Group of two)  
CS160-02  
Introduction to Data Science  
Spring 2023**

**Working on Techniques for Analyzing Data**

**Instructions:** Complete the following activities for this project.

1. Create a new GitHub repository named Assignment1\_XXX, where XXX are your initials.
2. Using excel (to generate the result) and word documents (type answers and paste the results) work on the following questions and submit your work using **pdf** format.
3. What are the differences between data analysis and data analytics?
4. Comment on variable types of Murder, Assault, and urban pop.
5. What is the difference between interval and ratio data?
6. What is descriptive analysis? Represent the data of Murder, Assault, and urban pop. Comment on the distribution.
7. What is a measure of dispersion? Calculate the interquartile range of those three variables
8. What is the measure of centrality? Find the measurement of centrality: mean, median, mode
9. What are diagnostic analytics? Find diagnostic analysis for pair of variables.
10. Using the instructions provided by GitHub, create a git repository named DS160**InClassAssignment**, and push your pdf file to it. Each of you needs to submit your work.

**Submission:**

Paste a link to your GitHub repository in the area provided for this assignment and submit it by class time.